

TUNER CIRCUIT

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Abstract

PURPOSE: To prevent malfunction of a voltage controlled oscillator(VCO) due to local drift and to improve the operability of tuning by reducing the level of an audio IF signal when any synchronizing signal is not detected from a video detect signal.

CONSTITUTION: When a local oscillation frequency drifts higher due to the change of a surrounding temperature or the like in the case of channel switching, the video and audio IF signals with transited higher frequencies are outputted from a front end 12. At such a time, when the synchronizing signal is not detected, the audio IF signal is attenuated, and the video IF signal and the level-suppressed audio IF signal are inputted to an IC 26. Therefore, the oscillated frequency of the VCO circuit is almost not affected by the audio IF, and the pull-in range of the VCO circuit is not made narrow. When the oscillated frequency of the VCO circuit is locked to the video IF, a detection signal containing a video component is outputted from a video detection circuit and with this signal, a switch 22 is turned off.

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